



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,775	11/19/2003	Lawrence E. Renck	031599/259282	6154
826	7590	03/22/2006	EXAMINER	
ALSTON & BIRD LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000			HORTON, YVONNE MICHELE	
		ART UNIT		PAPER NUMBER
				3635
DATE MAILED: 03/22/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
---------------------------------	-------------	---	---------------------

EXAMINER

ART UNIT      PAPER

20060308

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

PLEASE SEE ATTACHED COMMUNICATION FROM THE EXAMINER

## DETAILED ACTION

### ***Response to Applicant's Request for Re-Issuance of the Office Action dated January 5, 2006***

Since this request was received at the very end of the three (3) month response period to the Office Action mailed October 5, 2005, the period for response is NOT restarted in accordance with MPEP 710.06.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

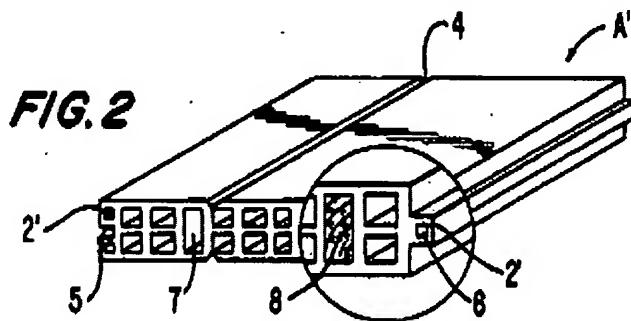
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #3,709,161 to KAUFFMAN. KAUFFMAN discloses the use of a reinforced panel including a face sheet (8,10,12) with a plurality of integral intersecting ribs (4,6) projecting from an interior side thereof and forming contiguous cells/channels, column 2, lines 39-43 and reinforcing members (16) positioned within the channels to increase bending resistance of the panel, column 2, lines 47-49. Regarding claims 7 and 8, the face sheet (8,10,12) is made from papermaking fibers, column 2, line 13, and is attached to the distal ends of the ribs (4,6).

Claims 1,2-6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #5,876,831 to RAWAL. RAWAL discloses the use of a reinforced panel (10) including a face sheet (34,40) with a plurality of integral intersecting ribs (22a-e)

projecting from an interior side thereof and forming contiguous cells/channels, and reinforcing members (18a-e) positioned within the channels to increase bending resistance of the panel. Regarding claims 2,4,5 and 6, the reinforcing member (18a-e) and the cells/channels have a cross-sectional shape of a polygon or a circle, see figures 2 and 4; wherein the reinforcing members (18a-e) are adhesively, column 5, line 25, bonding within the cells/channels. In reference to claim 8, the face sheet (34,40) is attached to the distal ends of the ribs (22a-e).

Claims 1,3,9,10,12-15 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #5,177,924 to KAKUK. KAKUK discloses the use of a reinforced panel including a face sheet (FS) with a plurality of integral intersecting ribs (IR) projecting from an interior side thereof and forming contiguous cells/channels (2,7,10) and reinforcing members (3,8,11,21) positioned within the channels to increase bending resistance of the panel, see below. Regarding claims 3 and 12, the reinforcing



members (21) have an I-shape. In reference to claims 9 and 20, the members are molded fibers, column 5, lines 1-19. Further regarding claim 10, the panel also includes a second face (SS) and a plurality of second intersecting ribs (IR-2) that are in face to

face contact with the first integral ribs (IR), see above. In reference to claims 13-15, the first and second reinforcing members (18a-e) are positioned within the first and second channels (22a-e), flush therewith, and are bonded therein by glue/adhesive, column 6, lines 19-22. Regarding claim 18, the planar sheet (FS,SS) are attached to the distal ends of the intersecting members (18a-e). In reference to claim 19, the reinforcing members (18a-e) are made from metal or wood, column 6, lines 41,49 and 56.

Claims 21,25 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #5,876,831 to RAWAL. RAWAL discloses the method of forming a reinforcing panel including the steps of forming a first face sheet (34,40), forming first channel (22a-e), and securing a first reinforcing member (18a-e). Regarding claim 25, the reinforcing member (18a-e) is secured using adhesive, column 6, lines 19-22. In reference to claim 27, the reinforcing members (18a-e) fit flush within the channels (22a-e).

Claims 21,26,28,30-34 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent #5,177,924 to KAKUK. Regarding claims 21 and 32KAKUK discloses the method of forming a reinforcing panel including the steps of forming a first face sheet (FS), forming first channel (CH) and (2,7,10) using a plurality if integral ribs (IR), and securing a first reinforcing member (3,8,11,21) therein, see above. In reference to claim 26, the securing step includes securing the first reinforcing member (21) beyond the first integral ribs (IR), see figures 6 and 7. Regarding claims 28 and 31, RAWAL further discloses the step of forming a second face (SS) and second integral

ribs (IS-2), and channels (CH-2) and (2,7,10); and securing a first and second reinforcing member (21) in a second channel thereby attaching the first sheet (FS) to the second sheet (SS). In reference to claim 30, RAWAL further discloses securing the second reinforcing members (2,7,10) within the second channels (3,8,11). Regarding claim 32, RAWAL further discloses the use of a channel (4) on the exterior side of the face sheet (FS). In reference to claim 33, the first (IR) and second (IR-2) intersecting ribs are proximate one another. Regarding claim 34, the channel (4) extends into the exterior of the face sheet (FS). In reference to claim 36, the face sheet (FS,SS) is formed from molded fibers, column 5, lines 1-19.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent #5,177,924 to RAWAL. RAWAL discloses the basic claimed panel except for

Art Unit: 3635

explicitly detailing the use of a paper board material. Although RAWAL is silent in this regard, he does detail the use of organic materials, column 1, line 51. Paper is an organic material. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to select a known material on the basis of its suitability for the use intended as an obvious matter of design choice.

***Allowable Subject Matter***

Claims 11,16,22-24,29 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

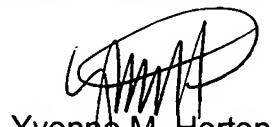
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yvonne M. Horton whose telephone number is (571) 272-6845. The examiner can normally be reached on 6:30 am - 3:00 pm.

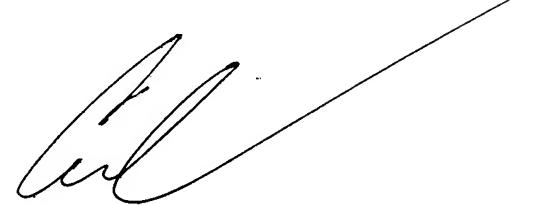
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl D. Friedman can be reached on (571) 272-6842. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3635

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Yvonne M. Horton  
Art Unit 3635  
03/08/06



Carl D. Friedman  
Supervisory Patent Examiner  
Group 3600